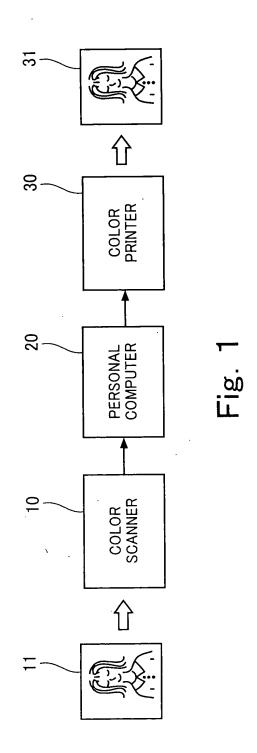Masaki NOGIWA Q79695
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Fig. 1

20

COLOR CONVERTER	GRADATION CORRECTION APPARATUS	UCR PROCESSOR
40	50	60
COLOR CONVERSION PROFILE	GRADATION CORRECTION CURVE	UCR FUNCTION
41	51	61

Fig. 2

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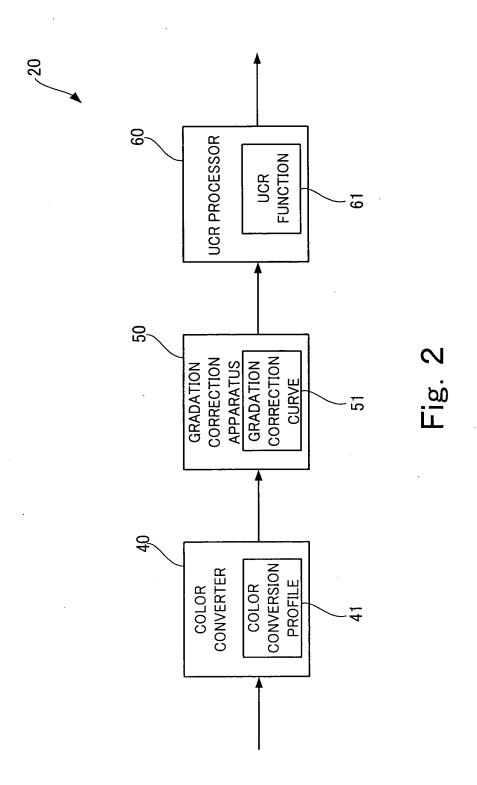Darryl Mexic 202-663-7909
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20

22

22a

21

21a

21b

24

23

Fig. 3

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20

25

211
CPU

23
KEYBOARD

212
MAIN MEMORY

24
MOUSE

213
HARD DISK DRIVE

214
FD DRIVE

100

22
IMAGE DISPLAY UNIT

215
CD-ROM DRIVE

110

216
INPUT INTERFACE

217
OUTPUT INTERFACE

BUS
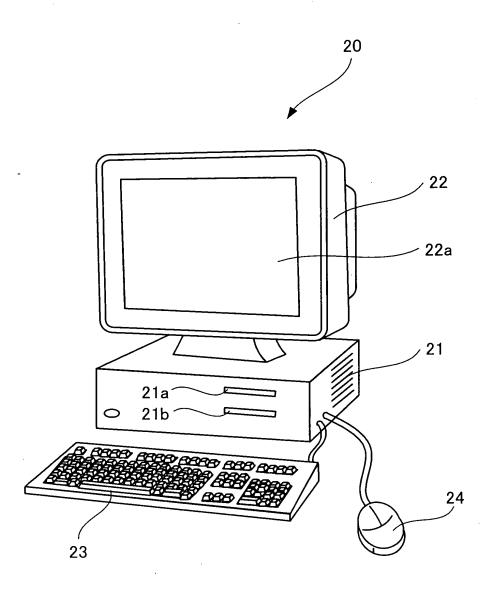
Fig. 4

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CD-ROM — 110

GRADATION CORRECTION
CURVE CREATION PROGRAM — 300

FIRST GRADATION CORRECTION
CURVE CREATION SECTION — 310

SECOND GRADATION CORRECTION
CURVE CREATION SECTION — 320

START POSITION CALCULATION
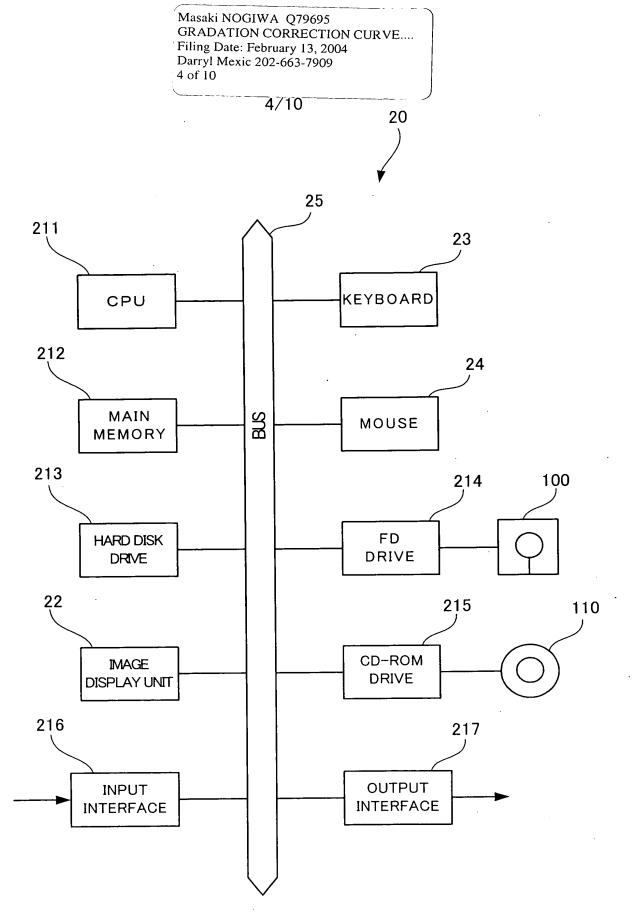SECTION — 330

GRADATION CORRECTION
CURVE COMBINING SECTION — 340

Fig. 5

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400

401
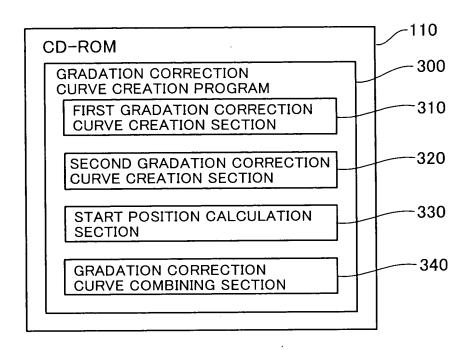
COLOR CHART

MESURED MONOCHROMATIC VALUES

MEASURED GRAY VALUES

420

SECOND GRADATION CORRECTION CURVE CREATION SECTION

SECOND GRADATION CORRECTION CURVE

410

FIRST GRADATION CORRECTION CURVE CREATION SECTION

FIRST GRADATION CORRECTION CURVE

440

GRADATION CORRECTION CURVE COMBINING SECTION

THIRD GRADATION CORRECTION CURVE

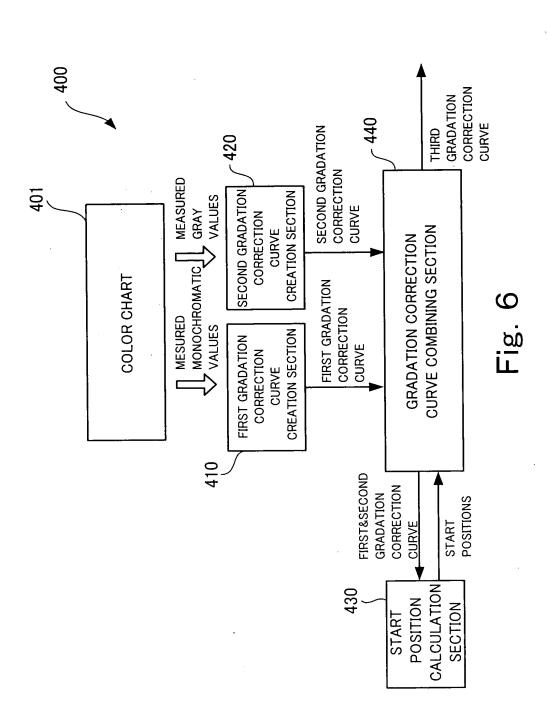FIRST&SECOND GRADATION CORRECTION CURVE

START POSITIONS

430

START POSITION CALCULATION SECTION

Fig. 6

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```
          ╭─────────────╮
          │    START     │
          ╰─────────────╯
                 │
      ┌────────────────────┐
      │  OUTPUT PATCHES     │   (S1)
      └────────────────────┘
                 │
      ┌────────────────────┐
      │ MEASURE DENSITIES OF│
      │   MONOCHROMATIC     │   (S2)
      │     PATCHES         │
      └────────────────────┘
                 │
      ┌────────────────────┐
      │  AQUIRE MEASURED    │
      │   VALUES OF GRAY    │   (S3)
      │     PATCHES         │
      └────────────────────┘
                 │
      ┌────────────────────┐
      │   CREATE FIRST      │
      │    GRADATION        │   (S4)
      │ CORRECTION CURVE    │
      └────────────────────┘
                 │
      ┌────────────────────┐
      │  CREATE SECOND      │
      │    GRADATION        │   (S5)
      │ CORRECTION CURVE    │
      └────────────────────┘
                 │
      ┌────────────────────┐
      │  CALCULATE START    │
      │     POSITIONS       │   (S6)
      └────────────────────┘
                 │
      ┌────────────────────┐
      │   CREATE THIRD      │
      │    GRADATION        │   (S7)
      │ CORRECTION CURVE    │
      └────────────────────┘
                 │
          ╭─────────────╮
          │     END      │
          ╰─────────────╯
```

Fig. 7

401

	C	M	Y	K	GRAY	
1	☐	☐	☐	☐	☐	1
2	☐	☐	☐	☐	☐	2
3	☐	☐	☐	☐	⋮	⋮
4	☐	☐	☐	☐	☐	13
⋮	⋮	⋮	⋮	⋮		
21	☐	☐	☐	☐		

Fig. 8
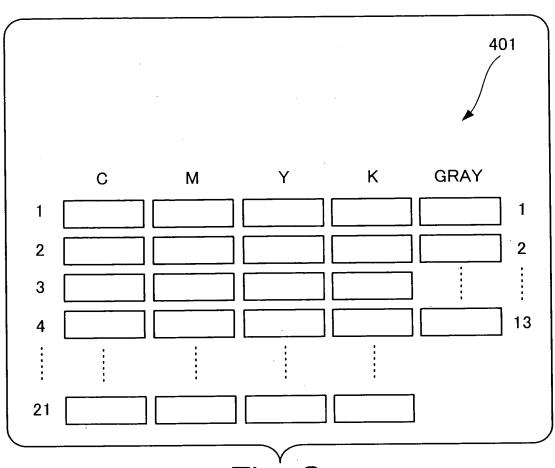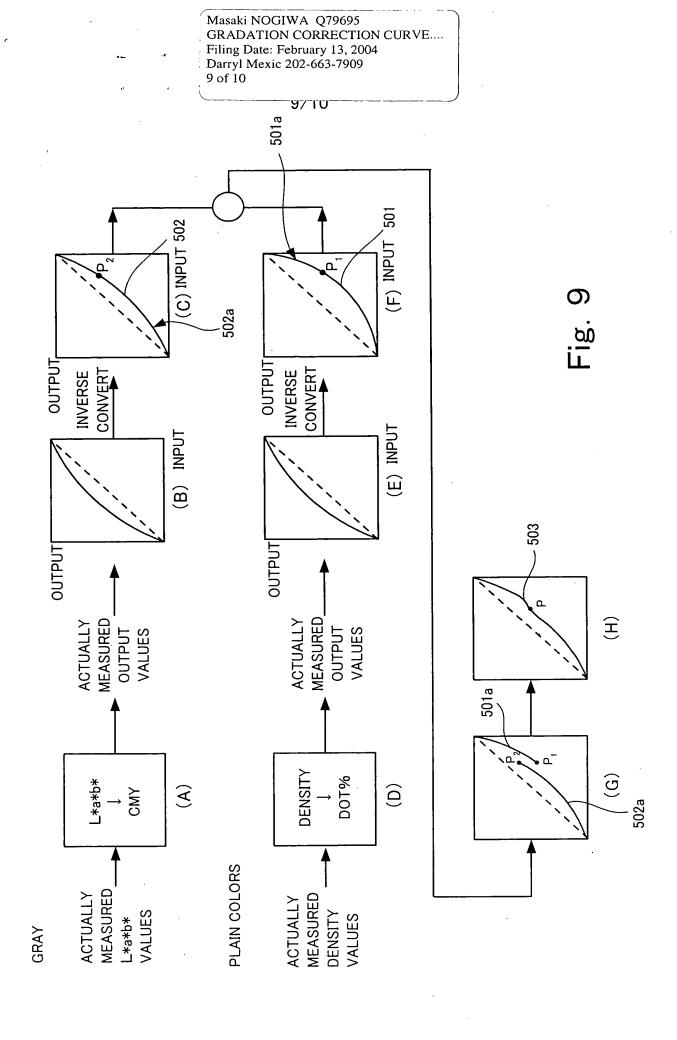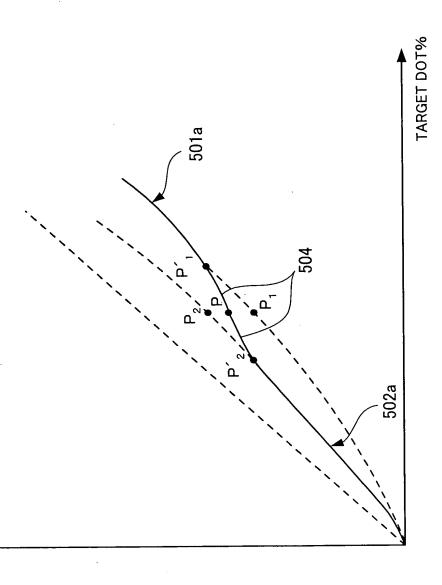
Fig. 9

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Fig. 10